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| U. S. PATENT AND TRADEMARK OFFICE U.S. DEPARTMENT OF COMMERCE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER MC073YP |
| | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/534582 |
| INTERNATIONAL APPLICATION NO. PCT/CA2003/001800 | INTERNATIONAL FILING DATE November 19, 2003 | PRIORITY DATE CLAIMED November 22, 2002 |
| TITLE OF INVENTION 4-OXO-1-(3-SUBSTITUTED PHENYL)-1,4-DIHYDRO-1,8-NAPHTHYRIDINE-3-CARBOXAMIDE PHOSPHODIESTERASE-4 INHIBITORS | | |
| APPLICANT(S) FOR DO/EO/US DANIEL DUBE, MICHEL GALLANT, PATRICK LABCOMBE, RENEE ASPIOTIS, LAURENCE DUBE, YVES GIRARD AND DWIGHT MACDONALD | | |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"><input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.<input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.<input type="checkbox"/> This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below.<input checked="" type="checkbox"/> The US has been elected (PCT Article 31).<input checked="" type="checkbox"/> A copy of the International Application as filed [35 U.S.C. 371(c)(2)]<ol style="list-style-type: none"><input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<input checked="" type="checkbox"/> has been communicated by the International Bureau.<input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<input type="checkbox"/> An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].<ol style="list-style-type: none"><input type="checkbox"/> is attached hereto<input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)].<ol style="list-style-type: none"><input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<input type="checkbox"/> have been communicated by the International Bureau.<input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<input checked="" type="checkbox"/> have not been made and will not be made.<input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].<input checked="" type="checkbox"/> An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].<input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)]. <p>Items 11 to 20 below concern other document(s) or information included:</p> <ol style="list-style-type: none"><input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<input checked="" type="checkbox"/> A preliminary amendment.<input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<input type="checkbox"/> A substitute specification.<input type="checkbox"/> A power of attorney and/or change of address letter.<input type="checkbox"/> A computer-readable form of the sequence listing in accordance with 37 CFR 1.821 - 1.825.<input type="checkbox"/> A second copy of the published International Application under 37 CFR 1.54(d)(4).<input type="checkbox"/> A second copy of the English language translation of the international application under 37 CFR 1.54(d)(4).<input type="checkbox"/> Other items or information: | | |

EXPRESS MAIL CERTIFICATE
DATE OF DEPOSIT 5-11-05
EXPRESS MAIL NO. 989591354 US
I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE"
ON THE ABOVE DATE IN AN ENVELOPE ADDRESSED TO
COMMISSIONER FOR PATENTS, P.O. BOX 1450,
ARLINGTON, VIRGINIA 22201-1450.
MAILED BY Christine Cuffe
DATE 5-11-05

JC14 Rec'd PCT/PTO 11 MAY 2005

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| U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; margin-top: 10px;">10/534582</div> | | INTERNATIONAL APPLICATION NO. PCT/CA2003/001800 | | ATTORNEY'S DOCKET NUMBER MC073YP | |
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|--|-------------------------------------|--|-------|---------------------|---------------------|
| The following fees are submitted: | | | | CALCULATIONS | PTO USE ONLY |
| 21. | <input checked="" type="checkbox"/> | Basic national fee..... | \$300 | \$300.00 | |
| 22. | <input checked="" type="checkbox"/> | Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... | \$100 | | |
| | | All other situations..... | \$200 | \$100.00 | |
| 23. | <input checked="" type="checkbox"/> | Search fee Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority..... | \$100 | | |
| | | International Search Report prepared and provided to the Office..... | \$400 | | |
| | | All other situations..... | \$500 | \$400.00 | |
| TOTAL OF 21, 22 and 23= | | | | \$800.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |

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|--------------|--------------|---|------------|----------|
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | |
| 112 - 100 = | 12 /50 | 0.24 = 1 | X \$250.00 | \$250.00 |

Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)].

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|---|--------------|--------------|------------|----------|
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | |
| Total Claims | 27 - 20 = | 7 | X \$50.00 | \$350.00 |
| Independent Claims | 3 - 3 = | 0 | X \$200.00 | \$0.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360.00 | |

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| TOTAL OF ABOVE CALCULATIONS (SUBTOTAL) | = | \$1,400.00 |
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Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

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| TOTAL NATIONAL FEE | = | \$1,400.00 |
|---------------------------|---|------------|

Fee for recording the enclosed assignment [37 CFR 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.

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| TOTAL FEES ENCLOSED | = | \$1,400.00 |
|----------------------------|---|------------|

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| | Amount to be refunded: | |
| | Amount to be charged: | |

a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 13-2755 in the amount of \$1,400.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. 13-2755. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer No. 000210

MERCK & CO., INC.
Patent Department, RY60-30
P.O. Box 2000
126 East Lincoln Avenue
Rahway, New Jersey 07065-0970

DATE: May 11, 2005

PHONE #: (732) 594-3199

SIGNATURE

 NAME
 Curtis C. Panzer

 33.752

 REGISTRATION NUMBER